

In the claims:

Applicant hereby restates the claims of the present application as follows:

1 - 12. (Previously Cancelled)

13. (Currently amended) A hydraulic transmission system for use with deriving power from at least one submerged water current driven turbine rotor, the transmission system comprising: a turbine rotor submerged in a body of water containing a current, the rotor having an output, a plurality of first pumps pump adapted to be coupled to an the output of a the water current driven turbine rotor, the plurality of first pumps producing, in response to rotation of the turbine rotor by the water current, a pressurized supply of water at an outlet of the first pumps, a power generator and a hydraulic motor second pump adapted to be coupled to a drive shaft of the power generator, the hydraulic motor having an input, a fluid circuit including a coupling between an output the outlet of the plurality of first pump pumps and an the input of the hydraulic motor second pump for conveying water pressurized by the plurality of first pump pumps to the hydraulic motor second pump, the first pumps and hydraulic motor being sized such that an any given non-zero pressure in the fluid circuit coupling between the outlet of the plurality of first pumps and the input of the hydraulic motor, the speed of the hydraulic motor is greater than the first pumps, an intake coupled to the fluid circuit for receiving water from any surrounding body of water in which the transmission system turbine rotor is submerged, a filter coupled to the intake for filtering any water received through the intake, a header tank coupled to the filter for storing water that has passed through the filter, and a fluid coupling between an outlet of the header tank and an inlet to the plurality of first pump pumps for supplying water to the plurality of first pump pumps.

14. (Currently amended) A hydraulic transmission system as claimed in claim 13 further comprising a coupling between an outlet of the hydraulic motor second pump and the inlet to the plurality of first pump pumps for re-circulating water

previously pumped from the plurality of first pump pumps to the hydraulic motor second-pump.

15. (Currently amended) A hydraulic transmission system as claimed in claim 14 further comprising a plurality of additional first pumps, a pressure plenum coupling the plurality of first pump pumps to the input of the hydraulic motor second-pump, and a return plenum coupled to the outlet of the hydraulic motor second-pump for distributing re-circulating water to the plurality of first pump pumps.

16. (Previously presented) A hydraulic transmission system as claimed in claim 15 further comprising a pressure balancing tank coupled to the pressure plenum.

17 (Cancelled)

18. (New) A marine turbine installation comprising a support column fixed to a substrate lying below a body of water in which currents exist, a turbine coupled to the support column having a rotor positionable in the body of water for interaction with the water currents, the rotor having an output shaft, a plurality of first pump pumps coupled to the output shaft, the plurality of first pumps having at least one outlet, a hydraulic motor second-pump coupled to a drive shaft of an electrical generator, the hydraulic motor having an input, a fluid circuit including a coupling between an output the at least one outlet of the plurality of first pump pumps and an said input of the hydraulic motor second-pump for conveying water pressurized by the plurality of first pump pumps to the hydraulic motor second pump, the first pumps and hydraulic motor being sized such that an any given non-zero pressure in the fluid circuit coupling between the outlet of the plurality of first pumps and the input of the hydraulic motor, the speed of the drive shaft of the electrical generator is greater than the speed or the output shaft of the rotor, an intake coupled to the fluid circuit for receiving water from the body of water, a filter coupled to the intake for filtering any water received through the intake, a

header tank coupled to the filter for storing water that has passed through the filter, and a fluid coupling between an outlet of the header tank and an inlet to the plurality of first pump pumps for supplying water to the plurality of first pump pumps.

19. (Currently amended) A marine turbine installation as claimed in claim 18 further comprising a coupling between an outlet of the hydraulic motor second pump and the inlet to the plurality of first pump pumps for re-circulating water previously pumped from the plurality of first pump pumps to the hydraulic motor second pump.

20. (Currently amended) A marine turbine installation as claimed in claim 19 further comprising a plurality of additional first pumps, a pressure plenum coupling the plurality of first pump pumps to the input of the hydraulic motor second pump, and a return plenum coupled to the outlet of the hydraulic motor second pump for distributing re-circulating water to the plurality of first pump pumps.

21. (Currently amended) A marine turbine installation as claimed in claim 20 wherein at least one of the additional plurality of first pumps is coupled to a hydraulic motor coupled to a second turbine and a pressure balancing tank is coupled to the pressure plenum so that differences in rotor speed between the turbines can be accommodated.

22. (Currently amended) A marine turbine installation as claimed in claim 21 wherein each of the hydraulic motor coupled to the second turbine is turbines are coupled to a plurality of first pumps.

23. (New) A hydraulic transmission system as claimed in claim 13 wherein the hydraulic motor consists essentially of a Pelton wheel.

24. (New) A marine turbine installation as claimed in claim 18 wherein the hydraulic motor consists essentially of a Pelton wheel.

25. (New) A marine turbine installation as claimed in claim 22 wherein the hydraulic motor coupled to the second turbine consists essentially of a Pelton wheel.